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IN THE CLAIMS

- 1-6. (Canceled)
- 7. (Previously presented) A vehicle comprising:

two or more wheels, and

at least one electric motor, where each at least one electric motor includes an in-wheel motor with a motor control scheme that can be dynamically adapted to user inputs, machine operating conditions and machine operating parameters to form an adapted control scheme.

- 8-9. (Canceled)
- 10. (Previously presented) A method comprising:

providing a vehicle having:

two or more wheels, and

at least one electric motor, where each at least one electric motor includes an inwheel motor with a motor control scheme that can be dynamically adapted to user inputs, machine operating conditions and machine operating parameters to form an adapted control scheme.

- 11. (New) The vehicle of claim 7, the vehicle being a hybrid electric vehicle.
- 12. (New) The vehicle of claim 11, the hybrid electric vehicle being a series hybrid electric vehicle.
 - 13. (New) The vehicle of claim 12, the vehicle having at least four wheels.
 - 14. (New) The vehicle of claim 7, the vehicle having at least four wheels.
- 15. (New) The vehicle of claim 14, at least one wheel of the at least four wheels disposed at a corner of the vehicle.
- 16. (New) The vehicle of claim 7, the at least one electric motor operatively connected to the two or more wheels, the two or more wheels disposed at a front or a rear of the vehicle.
- 17. (New) The vehicle of claim 7, each wheel operatively connected to one of the at least one electric motor.
- 18. (New) The vehicle of claim 7, each of the at least one electric motor connected to a battery.
 - 19. (New) The vehicle of claim 18, the battery electrically connected to a generator.

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- 20. (New) The vehicle of claim 19, the generator disposed in the vehicle.
- 21. (New) The vehicle of claim 7, each of the at least one electric motor connected to a battery adjacent to each electric motor.
 - 22. (New) The vehicle of claim 21, each battery electrically connected to a generator.
 - 23. (New) The vehicle of claim 22, the generator disposed in the vehicle.
- 24. (New) The vehicle of claim 7, the vehicle further comprising a controller, the at least one electric motor operatively connected to the controller.
- 25. (New) The vehicle of claim 7, the vehicle further comprising a user interface, the user interface operatively connected to the controller.
 - 26. (New) A hybrid electric vehicle, comprising:
 - a vehicle body;
 - at least two wheels disposed on the vehicle body;
 - at least one electric motor operatively connected to each wheel; and

a controller operatively connected to the at least one electric motor and to receive sensor information concerning at least one of a user input, a machine operating condition, and a machine operating parameters,

the controller controlling the at least one electric motor according to a first motor control scheme and a second motor control scheme, the controller changing control between the first motor control scheme and the second motor control scheme in response to at least the sensor information.

- 27. (New) The hybrid electric vehicle of claim 26, the hybrid electric vehicle being a series hybrid electric vehicle.
- 28. (New) The hybrid electric vehicle of claim 26, the vehicle having at least four wheels.
- 29. (New) The hybrid electric vehicle of claim 26, at least one wheel of the at least two wheels disposed at a corner of the vehicle.
- 30. (New) The hybrid electric vehicle of claim 26, the at least two wheels disposed at a front or a rear of the vehicle.
- 31. (New) The hybrid electric vehicle of claim 26, each of the at least one electric motor connected to a battery.

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32. (New) The hybrid electric vehicle of claim 31, the battery electrically connected to a generator.

- 33. (New) The hybrid electric vehicle of claim 32, the generator disposed in the vehicle.
- 34. (New) The hybrid electric vehicle of claim 26, each of the at least one electric motor connected to a battery adjacent to each electric motor.
- 35. (New) The hybrid electric vehicle of claim 34, each battery electrically connected to a generator.
- 36. (New) The hybrid electric vehicle of claim 35, the generator disposed in the vehicle.
- 37. (New) The hybrid electric vehicle of claim 27, the vehicle further comprising a user interface, the user interface operatively connected to the controller.
 - 38. (New) A method comprising:

providing power to at least two wheels of a hybrid electric vehicle with at least one electric motor operatively connected to the at least two wheels;

controlling the at least one electric motor with a first motor control scheme;

sensing information from at least one of a user input, a machine operating condition, and a machine operating parameter;

forming a second motor control scheme in response to the sensed information; and controlling the at least one electric motor with the second motor control scheme.